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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.

(New Nonprovisional Applications Under 37 CFR § 1.53(b))

CISCP647

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is the patent application of ( ) application identifier or (X) first named inventor, James M Gardner, entitled WIDE RANGE FREQUENCY OFFSET ESTIMATION IN OFDM SYSTEMS, for a(n):

- (X) Original Patent Application.
( ) Continuing Application (prior application not abandoned):
( ) Continuation ( ) Divisional ( ) Continuation-in-part (CIP) of prior Application No. filed
( ) Please add after the title of the application "This is a
( ) Continuation ( ) Divisional ( ) Continuation-in-part (CIP) of Application No. filed, which is hereby incorporated by reference."
( ) Please add after the title of the application "This application claims the benefit of U.S. Provisional Application No. filed, which is hereby incorporated by reference."

Enclosed are:

- (X) Specification; 22 Total Pages. (X) Drawing(s); 5 Total Sheets.
( ) Oath or Declaration:
( ) A Newly Executed Combined Declaration and Power of Attorney:
( ) Signed. ( ) Unsigned. ( ) Partially Signed.
( ) A Copy from a Prior Application for Continuation/Divisional (37 CFR § 1.63(d)).
( ) Signed Statement Deleting Inventor(s) Named in the Prior Application. (37 CFR § 163(d)(2)).
( ) Power of Attorney. (X) Return Receipt Postcard.
( ) Associate Power of Attorney. ( ) A Check in the amount of \$ for the Filing Fee.
( ) Preliminary Amendment. ( ) Information Disclosure Statement and Form PTO-1449.
( ) A Duplicate Copy of this Form for Processing Fee Against Deposit Account.
( ) A Certified Copy of Priority Documents (if foreign priority is claimed).
( ) Statement(s) of Status as a Small Entity.
( ) Statement(s) of Status as a Small Entity Filed in Prior Application, Status Still Proper and Desired.
( ) Other:

PLEASE DO NOT CHARGE THE FILING FEE AT THIS TIME.

Respectfully submitted,

By: Dan H. Lang, Reg. No. 38,531

Date: December 21, 1999

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I hereby certify that this is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated below and is addressed to:

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